

AMENDMENTS TO THE CLAIMS

The listing of claims below replaces all prior versions of claims in the application.

1.-2. (Cancelled)

3. (Currently Amended) A current-to-voltage conversion circuit having an active state and a deactivated state, comprising:

an input section to input an input power;

a transformer to convert the input power into an output power;

an output section to output the output power;

a first circuit to stop a power supply to the transformer and put the current-to-voltage conversion circuit into a deactivated state when the output section is in a no-load state or a standby state, wherein said first circuit includes a first comparator to compare an output current on a secondary side of the transformer and a threshold current; and

a second circuit to start a power supply to the transformer and put the current-to-voltage conversion circuit into an active state when a voltage from external of the current-to-voltage conversion circuit is applied to the output section;

a drive control circuit to drive the transformer; and

a first coupler circuit including a photo-coupler to couple an output of the first comparator and an input of the drive control circuit.

4.-5. (Cancelled)

6. (Currently Amended) ~~The A~~ current-to-voltage conversion circuit ~~as claimed in claim~~
~~3,~~ having an active state and a deactivated state, comprising:

an input section to input an input power;

a transformer to convert the input power into an output power;

an output section to output the output power;

a first circuit to stop a power supply to the transformer and put the current-to-voltage
conversion circuit into a deactivated state when the output section is in a no-load state or a
standby state; and

a second circuit to start a power supply to the transformer and put the current-to-voltage
conversion circuit into an active state when a voltage from external of the current-to-voltage
conversion circuit is applied to the output section,

wherein said second circuit includes a second comparator to compare an output voltage
on a secondary side of the transformer and a threshold voltage.

7. (Currently Amended) ~~The A~~ current-to-voltage conversion circuit ~~as claimed in claim~~
~~4,~~ having an active state and a deactivated state, comprising:

an input section to input an input power;

a transformer to convert the input power into an output power;

an output section to output the output power;

a first circuit to stop a power supply to the transformer and put the current-to-voltage conversion circuit into a deactivated state when the output section is in a no-load state or a standby state, wherein said first circuit includes a first comparator to compare an output current on a secondary side of the transformer and a threshold current; and

a second circuit to start a power supply to the transformer and put the current-to-voltage conversion circuit into an active state when a voltage from external of the current-to-voltage conversion circuit is applied to the output section,

wherein said second circuit includes a second comparator to compare an output voltage on a secondary side of the transformer and a threshold voltage.

8. (Currently Amended) The current-to-voltage conversion circuit as claimed in ~~claim 5~~ claim 3, wherein said second circuit includes a second comparator to compare an output voltage on a secondary side of the transformer and a threshold voltage.

9. (Original) The current-to-voltage conversion circuit as claimed in claim 6, further comprising:

a drive control circuit to drive the transformer; and

a second coupler circuit including a photo-coupler to couple an output of the second comparator and an input of the drive control circuit.

10. (Original) The current-to-voltage conversion circuit as claimed in claim 7, further comprising:

a drive control circuit to drive the transformer; and

a second coupler circuit including a photo-coupler to couple an output of the second comparator and an input of the drive control circuit.

11. (Original) The current-to-voltage conversion circuit as claimed in claim 8, further comprising:

a second coupler circuit including a photo-coupler to couple an output of the second comparator and the input of the drive control circuit.

12.-15 (Cancelled)